

No 4.

20-5216

to 20-5258.

507

Next Fry =

Next Hy = 4912.13)

Dredge } No. 5216. Date, 22 Feb., 1908

Sdg. Mch. Lucas Reel Lucas Shot } 35 lbs.

Turns 215 Cor'n - Depth 215 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 2 oz.

Character of Bottom gn M.

Thermom. { Make N. 3. Cor'n { Instr. -43
No. 108023 Stem. -38

Bottom Reading 52.7° Cor'd Temp. 51.9°

Temp. Surf. { 80° Time 8:28 a } Air { 80°
80° Time 9:00 a } 80°

Density: Surf. 1.02481 fms. 1.02465

Wind: Direction NNE Force 2

Baromet. 29.77 Amt. of Clouds 2 State of Sea S

Weather bc

Direction and Force of Current { Surface
Bottom

Tide Anna Sola Id. N 44° W 29.5 mi

General Locality Bet. Burias and Luzon c

Aguja Pt (Burias) S 2° W. Numan Pt (Ticao)

Position 12° 52' 00" N - 123° 23' 40" E. S 53° E.

Chart used: No. CS 4715 Ed'n -

Drift: Direction N 42 W Distance 1.5 mi

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz NR trawl.
3 glass floats, 2 wingweights, 1 tail weight, 1 mudbag.

Time towing - h. 20 m.

Remarks: Water bottle used in Sdg. -
The regular recording watch being out of commission time is kept by a watch without second hand.

Deck Officer Mr. Cassidy Recorder J. F. Smith

SOUNDING WIRE.					FMS.	DREDGING CABLE.						
M. Down.			Up. M.			M. Down.			Up. M.			
8	17	-	8	22	-	0	8	24	-	9	11	-
	18	-		21	-	100		28	-		07	-
	19	-		20	-	200		31	-	9	03	-
8	19	-	8	20	-	300		34	-		59	-
						400	8	36	-	8	56	-
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4800						
						4900						

Dredge } No. 5217 Date, 22 Sept., 1998
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.
Turns 105 Cor'n — Depth 105 fms.
Sdg. Cup Sigstee Amt. Bot'm Sample 1 gm.
Character of Bottom crs gy S
Thermom. { Make N.Z. Instr. -31
No. 108023 Cor'n { Stem. -26
Bottom Reading 63.7° Cor'd Temp. 63.1°
Temp. Surf. { 82° Time 10:40 a. Air { 82.5°
81° Time 11:10 a. 85°
Density: Surf. 1.02489 fms. 1.02496
Wind: Direction SSE Force 2
Baromet. 29.76 Amt. of Clouds 2 State of Sea S
Weather bc

Direction and Force of Current { Surface
Bottom

Tide
Quina Lala 2d N43°W 17.25 m.

General Locality Bet. Burias & Luzon.
Cabarian Pt. (Luzon) N89°E - Macoto Pt. (Luzon)

Position 13°00'20"N - 123°14'15"E - N37°E.

Chart used: No. CS 4715 Ed'n —

Drift: Direction N45°W Distance 1.2 m.

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 1 m.

Remarks: Water bottle used at sdg. —
The thermometer registered very high
when sent down — had been ex-
posed to the sun — and this left at
bottom 2 min. had probably not
reached the proper temperature when
brought up.

Deck Officer Mr Cassidy Recorder J. A. T. —

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

10 30

10 34

0

10 37

-

11

11

-

10 31

10 33

105 100

40

-

07

-

200 65 10 44

-

11

04

-

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5218 Date, April 22, 1908
Hydrog.

Sdg. Mch. Tanner Reel 72 Shot } 35 lbs.
Lead }

Turns 20 Cor'n — Depth 20 fms.

Sdg. Cup lead Amt. Bot'm Sample 1/2 g.

Character of Bottom crs. S.

Thermom. { Make none Cor'n { Instr. used
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 1:02 } Air { 86°
82° Time 1:10 } 86°

Density: Surf. 1.02538 fms.

Wind: Direction Calm Force 0

Baromet. 29.70 Amt. of Clouds 1 State of Sea 2

Weather bc

Direction and Force of Current { Surface
Bottom

Tide 2.25 m.

General Locality Anima Lolo I (C) N 10° W
Tanguingui I (C) S 87° W Between Surin and Luzon
Position 13° 11' 00" N. 123° 2' 45" E

Chart used: No. 4715 C.S. Ed'n

Drift: Direction N. 16° W. Distance .2 mi.

Depth of Haul

Apparatus and Rig used 9' alb Blake,
harrow, 1 glass float, 1 tail weight

Time towing h. 5 m.

Remarks:

Deck Officer Mr Metters Recorder C. E. Lang

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.		P. M.		P. M. Down.			Up.	P. M.	
12	58	-	12	59	-	0	1	02	30	1	11	10
12	58	-	12	59	-	20 100 ³⁶	1	04	30	1	09	20
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4800						
						4900						

Dredge } No. 2127 Date, Sept 11, 1907

Sdg. Mch. Lucas Reel Shot head 30 lbs.

Turns 530 Cor'n — Depth 530 fms.

Sdg. Cup — Amt. Bot'm Sample 2 1/2

Character of Bottom gy. M.

Thermom. { Make 71
No. 108023

Cor'n { Instr. - 49
Stem. - 53

Bottom Reading 51.8 Cor'd Temp. 50.8

Temp. Surf. { 86° Time 2:09 } Air { 84°
87° Time 2:57 } 86 1/2°

Density: Surf. 1.02468 fms. 1.02467

Wind: Direction S. by E. Force 2-3

Baromet. 29.70 Amt. of Clouds 3 State of Sea 2

Weather b. c.

Direction and Force of Current { Surface
Bottom

Tide Mompoy Id (N) N 35° 30' W, 12.25 mi.

General Locality in the Gulf of Mexico (and ...)

Position 13° 21' N. 111° 11' W.

Chart used: No. 4715 C.S. Ed'n

Drift: Direction 72° Distance

Depth of Haul bottom

Apparatus and Rig used 12' ...

... glass floats

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
<i>P</i> M. DOWN.		UP.	<i>P</i> M.			<i>P</i> M. DOWN.		UP.	<i>P</i> M.	
1 52	-	2 02	-		0	2 08 00		3 35	00	
1 53	-	2 03	-		100	2 12 20		3 31	30	
1 54	-	2 04	-		200	2 16 00		3 26	30	
1 55	-	2 05	-		300	2 19 20		3 21	00	
1 56	-	2 00	-		400	2 22 45		3 16	00	
1 57	-	1 59	-		500	2 26 00		3 13	00	
1 57	-	1 58	-		600	2 29 20		3 07	00	
					700	2 33 10		3 02	10	
					800	2 36 30		3 56	00	
					900					
					1000					
					1100					
					1200					
					1300					
					1400					
					1500					
					1600					
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					4800					
					4900					

Dredge } No. 3220 Date, Oct 11, 1908

Sdg. Mch. _____ Reel 5 Shot/Lead 3 lbs.

Turns 50 Cor'n _____ Depth 50 fms.

Sdg. Cup _____ Amt. Bot'm Sample 2

Character of Bottom sp. gy. m.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 85° Time 1:05 P } Air { 81°
 { 85° Time 1:31 } { 87°

Density: Surf. 1.02493 fms. _____

Wind: Direction Variable Force 0

Baromet. 29.73 Amt. of Clouds 1 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

_____ 8.5 mi.

General Locality _____

Position _____

Chart used: No. 4714 Ed'n. _____

Drift: Direction N 54 W Distance 7

Depth of Haul bottom

Apparatus and Rig used _____

Time towing _____ h. 14 m.

Remarks: _____

Deck Officer J. J. Conrady Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
T M. Down.	Up.	T M.		T M. Down.	Up.	T M.
12 56 -	12 58		0	1 02 -	1 00	
12 57 -	12 57		100	1 06 -	1 20 15	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
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			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5221 Date, July 9, 1911
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot } 30 lbs.
 Lead }
 Turns _____ Cor'n _____ Depth 193 fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom V gn m
 Thermom. { Make _____ Cor'n { Instr. -49.26
 { No. 10000 { Stem. -44
 Bottom Reading 53.1 Cor'd Temp. 52.4
 Temp. Surf. { 84 Time 5:17 } Air { 84
 { 84 Time _____ }
 Density: Surf. 1.02503 Bottom fms. 1.02467
 Wind: Direction WSW Force 1
 Baromet. 29.87 Amt. of Clouds 2 State of Sea 1
 Weather 1-2

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality San Andres Is., 5.5 mi. N. of Manzanillo, B. Mex.
 Position 21° 15' N. 107° 15' W.
 Chart used: No. 1176 Ed'n _____
 Drift: Direction N. 1/2 W. Distance 1.0
 Depth of Haul 100 fms.
 Apparatus and Rig used Beam trawl

Time towing h. 2 m.

Remarks:

Deck Officer Mr. L. J. ... Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
3 03	-	07	20	0	3 12	-	07	57
04		06	45	100	16	-		55
3 05		06	-	193 200	20	-		50
				300	24	-		45
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
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				4800				
				4900				

Dredge } No. 5222 Date, 2-4-1908
 Hydrog. }
 Sdg. Mch. Lucas Reel Lucas Shot Lead lbs.
 Turns 195 Cor'n - Depth 195 fms.
 Sdg. Cup Eiggbee Amt. Bot'm Sample 3 03
 Character of Bottom gy. M.
 Thermom. { Make Lucas Cor'n { Instr. 47 N.
 { No. 108023 { Stem. 44
 Bottom Reading 52.50 Cor'd Temp. 52.8
 Temp. Surf. { 85.0 Time 4:28 p. } Air { 85.0
 { 85.0 Time 5:15 p. } { 86.0
 Density: Surf. 1.02470 Bottom fms. 1.02447
 Wind: Direction W by S Force 0-1
 Baromet. 29.69 Amt. of Clouds 2 State of Sea S
 Weather Bz.

Direction and Force of Current { Surface
 { Bottom

Tide. San Andres Id. (W) S 57° E., 9.2 mi.

General Locality Bot. T. Arin Anguila, Luzon
 Pt. Canit (Arin Anguila) 20 E - Pacbil

Position 13° 38' 30" N. 121° 42' 0" E.

Chart used: No. CS 4714 Ed'n -

Drift: Direction N 20° W Distance 1.7 m.

Depth of Haul Bottom

Apparatus and Rig used AS before

Time towing - h. 20 m.

Remarks: Water bottle used in ...

Deck Officer Mr. J. H. ... Recorder ...

SOUNDING WIRE.

M. DOWN.		UP.	P. M.	
4	31	4	35	+
4	32	4	34	30
4	33	4	34	

FMS.

DREDGING CABLE.

M. DOWN.		UP.	P. M.	
4	38	5	24	
4	30	5	18	30
4	30	5	10	
4	30	5	09	

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

20, Green Id (E). 7-17 E

Dredge } No. 5223 Date, 24 July, 1908
Hydrag.

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading No Cor'd Temp.

Temp. Surf. { 84° Time 7:53 } Air { 83°
84° Time 8:07 } 83°

Density: Surf. fms.

Wind: Direction NNE Force 2

Baromet. 29.70 Amt. of Clouds 4 State of Sea C

Weather bc

Direction and Force of Current { Surface Bottom

Tide 7.8 mi. 9.8 mi.

General Locality 10 mi. S. of Pt. Liza, Luzon, N. 45° E.

Position Lat 12° 45' N. Long. 121° 45' 30" E.

Chart used: No. 4714 C.S. Ed'n

Drift: Direction 267° Distance 1.7 mi.

Depth of Haul Surface

Apparatus and Rig used 10 ft. Trawl, as before

net. 250-lb. sinker

Time towing h. 20 m.

Remarks:

Deck Officer W. H. Hazard Recorder

SOUNDING WIRE.

M. DOWN. Up. M.

FMS.

DREDGING CABLE.

M. DOWN. Up. M.

0	747	-	8	57	-
100					
200					
300					
400					
500					
600					
700					
800					
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Dredge } No. 1111 Date, July 1, 1908
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Leads _____ lbs.

Turns 70 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84.0 Time 8:24 } Air { 83.0
 { 84.0 Time 8:44 } { 72.0

Density: Surf. _____ fms. _____

Wind: Direction NNE Force 2

Baromet. 29.76 Amt. of Clouds 4 State of Sea X

Weather Partly Cloudy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide Malabrigo St. N. 79° W 6.25 mi.

General Locality _____

Position _____

Chart used: No. 4714 Ed'n _____

Drift: Direction N 80° E Distance 1.4

Depth of Haul _____

Apparatus and Rig used 10' Dredge

25' net

Time towing _____ h. 10 m.

Remarks: _____

Deck Officer M. Cassin Recorder _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

*P*M. Down. | Up. | *P*M.

0	8	24	10	8	34	00
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
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Dredge } No. 5225 Date, May 4, 1908

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. 1.02448 fms.

Wind: Direction W Force 1-2

Baromet. Amt. of Clouds 6 State of Sea S

Weather bel

Direction and Force of Current { Surface Bottom

Tide

Corregidor St. N 10° E. 9.5 miles.

General Locality China Sea about 9 miles South of Corregidor

Position 14-13-24 N - 120-27-36

Chart used: No. 4240 Ed'n

Drift: Direction South Distance .9

Depth of Haul 200 (41)

Apparatus and Rig used

Time towing h. 2 m.

Remarks:

Deck Officer Mr. Staped Recorder W. C. ...

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 2216 Date, May 1, 1905
 Hydrog. }
 Sdg. Mch. Reel Shot/Lead lbs.
 Turns 2000 Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make Cor'n { Instr. No. Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { 83° Time 7:50 A } Air { 85°
 { 85° Time 8:00 } { 86°
 Density: Surf. 1.02574 fms.
 Wind: Direction SW Force 1
 Baromet. Amt. of Clouds 9 State of Sea 8
 Weather bc

Direction and Force of Current { Surface Bottom

Tide Corrected Lt. N 10° E. 10.7 mi.

General Locality South of Cape Cod

Position 41-12-15 N - 72-32-20 W

Chart used: No. 11240 Ed'n

Drift: Direction South Distance 8

Depth of Haul 10' Inter., 200 fms.

Apparatus and Rig used Sinker, used as Sinker net.

Time towing 2.5 m.

Remarks:

Deck Officer

Cassidy

Recorder

Robert's
Arufil-

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	7	45	25
			100		8	56
			200			00
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			2800			
			2900			
			3000			
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			3200			
			3300			
			3400			
			3500			
			3600			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5227 Date, May 17, 1908

Sdg. Mch. Reel Line Shot 35 lbs.

Turns 322 Cor'n Depth 322 fms.

Sdg. Cup Amt. Bot'm Sample 2 oz.

Character of Bottom m. s.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 86° Time 1.16 } Air { 86°
87° Time 1.16 } 85°

Density: Surf. 1.02498 fms.

Wind: Direction ENE Force 2

Baromet. 29.62 Amt. of Clouds 6 State of Sea

Weather bz.

Direction and Force of Current { Surface Bottom

Tide High Water 5.44° E. 1.16 m.

General Locality North Tallow Rd.

Position 12° 5' - 36° 12' 30" E.

Chart used: No. 4714 Ed'n

Drift: Direction S 30° E. Distance .6

Depth of Haul 280 - 300 fms.

Apparatus and Rig used 10' - 15' net.

Time towing 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 00 20	1 07 30		0	1 15 50	2 08 00	
01 50	06 30		100	19 35	2 03 30	
02 40	05 55		200	23 05	2 00 00	
03 45			300	26 40	54 30	
1 04 05	1 04 50	322	400	1 30 00	1 50 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 57228 Date, 5-7-1919
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 20 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 85 Time 7.03 } Air { 83 1/2
 { 86 Time _____ } { 84 0

Density: Surf. 1.02519 _____ fms. _____

Wind: Direction N.N.E. Force 2

Baromet. 29.58 Amt. of Clouds 2 State of Sea 2

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____
Romblon St. N. 30° E. 6.2 mi.

General Locality _____ (W) N 10 W, _____

_____ S. 60° E. _____

Position Lat. 12° 29' N Long. 121° 15' 45" E

Chart used: No. 4715-26, Ed'n _____

Drift: Direction 25.8° E. Distance .6 mi.

Depth of Haul surface

Apparatus and Rig used 10' inter. _____

Double cone _____

1/2000 1/2000 _____

Time towing ? h. 30 m.

Remarks: _____

Deck Officer J. B. _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

P. M. Down. Up. P. M.

0	7	02	30	7	25	00
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

V
Dredge } No. 544 Date, 7/20/11, 1911
Hydrog. }
Sdg. Mch. Reel Shot/Lead 0 lbs.
Turns 330 Cor'n Depth 270 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make Tan Cor'n { Instr.
No. Stem.

Bottom Reading 8.5 Cor'd Temp.

Temp. Surf. { 85 Time 9:50 a } Air { 70 }
Time

Density: Surf. 1.02525 fms.

Wind: Direction SW Force 2

Baromet. 29.74 Amt. of Clouds 8 State of Sea S.

Weather Partly Cloudy

Direction and Force of Current { Surface
Bottom

Tide
Tide 2d(E) S. 17° W 5.75 mi.

General Locality 3 mi. S. of P. 3000

Position 12-2-11 12-11-11 12-11-11

Chart used: No. 4719 Ed'n

Drift: Direction S 17 W Distance .5

Depth of Haul 0 mi.

Apparatus and Rig used 10' net

Time towing 20 m.

Remarks: Used James
found no bottom at 3000

Deck Officer 7/11/11 Recorder Robert

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
7 31 -	1		0	7 17 25 1 25 20		
32 20	40 30		100	50 50	2 1 20	
35 10	38 10		200	50 10	1 6 30	
7 30 10	7 30 10		300	55 10 10	1 5 00	
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5330 . Date, Jan 7, 1908,
Hydrog.

Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.

Turns 118 Cor'n --- Depth 118 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1 g.

Character of Bottom gy. S.

Thermom. { Make 1713. Cor'n { Instr. -452.1
No. 108023 Stem. -38

Bottom Reading 58.2 Cor'd Temp. 58.2

Temp. Surf. { 84° Time 7:15. Air { 84°
84° Time 7:35. 84°

Density: Surf. 1.02477 Sal. fms. 1.02496

Wind: Direction SSE Force 2

Baromet. 29.71 Amt. of Clouds 8 State of Sea C

Weather

Direction and Force of Current { Surface
of Current. { Bottom

Tide
Low water 11 (6) S. 68° E., 22.5 mi.

General Locality Cal. Bight & Santa Barbara

Position 10° 41' 20" N. 119° 42' 30" W. 5° bearing, west.

Chart used: No. 854719 Ed'n.

Drift: Direction S 63° E Distance .6 m.

Depth of Haul Surface

Apparatus and Rig used 15' line w. double

one Sigsbee. - 2. 1/2 lb. sinker.

Time towing 1 h. 20 m.

Remarks: 11 Sigsbee and in net.

Deck Officer Mr. Hazard Recorder

SOUNDING WIRE.

M. Down.	Up.	M.
7 02 00	7 05 50	
7 03 00	7 05 00	
7 03 10	7 04 50 1/8	

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
7 13 10	7 33 10	

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

PL

Dredge } No. 532 Date, 7 5 1908

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 7:45 Air { 85

Density: Surf. 1.02531 fms.

Wind: Direction SSE Force 2

Baromet. 29.74 Amt. of Clouds 7 State of Sea

Weather bc

Direction and Force of Current { Surface Bottom

Tide ... 6:15 G., 21.7 mi.

General Locality Bel. Bohol & Iloilo Id.

Position 10° 15' N - 124° 15' E

Chart used: No. CS 4718 Ed'n

Drift: Direction SSE Distance 0.4 m.

Depth of Haul Intec. net. 50 fms.

Apparatus and Rig used 10' Inter. beam trawl; Haffner 200 ft. attached to upper beam.

Time towing h. 50 m.

Remarks:

SOUNDING WIRE.			DREDGING CABLE.		
M. Down.	Up.	M.	FMS.	<u>P</u> M. Down.	Up. <u>P</u> M.
			0	7 43 20	7 43 20
			100	4 50 20	4 50 20
			125 200	4 50 20	4 50 20
			300		0 8 00
			300		
			400		
			500		
			600		
			700		
			800		
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		
			2500		
			2600		
			2700		
			2800		
			2900		
			3000		
			3100		
			3200		
			3300		
			3400		
			3500		
			3600		
			3700		
			3800		
			3900		
			4000		
			4100		
			4200		
			4300		
			4400		
			4500		
			4600		
			4700		
			4800		
			4900		

Dredge } No. 32 Date, July 1, 1903

Sdg. Mch. _____ Reel _____ Shot } lbs.
Lead }

Turns 20 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 8:30 } Air { 84°
 { 82° Time 8:40 } { 82°

Density: Surf. 1.02531 fms. _____

Wind: Direction S Force 2

Baromet. 30.75 Amt. of Clouds 4 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____
 2.1 (S) S. 61° 35' E., 2.1 mi.

General Locality Between Point & Light
(P. & L.)

Position Lat. 10° 50' 45" N Long. 124° 44' 06" E

Chart used: No. 4719 Ed'n. _____

Drift: Direction 63° E Distance .6 mi

Depth of Haul Surface

Apparatus and Rig used _____

Time towing h. 20 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	8	25	00	8	45	00
			100						
			200						
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
			1800						
			1900						
			2000						
			2100						
			2200						
			2300						
			2400						
			2500						
			2600						
			2700						
			2800						
			2900						
			3000						
			3100						
			3200						
			3300						
			3400						
			3500						
			3600						
			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

Dredge } No. 33 Date, May 2, 1901
Hydrog. }

Sdg. Mch. 20 Reel Shot } Lead } lbs.

Turns 200 Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54.0 Time 8:55 } Air { 83.0
5.10 Time 9:22 }

Density: Surf. 1.02514 fms.

Wind: Direction 2 Force 2

Baromet. 29.7 Amt. of Clouds 5 State of Sea

Weather bc.

Direction and Force of Current { Surface Bottom

Tide (C) S 70° E., 19.5 mi.

General Locality Between

Position 10° 00' 22" N; Long 124° 45' 00" E.

Chart used: No. 1112 Ed'n

Drift: Direction 260° E Distance 1.5 mi.

Depth of Haul

Apparatus and Rig used 15' beam trawl

Beam # 10 + beam # 2 1/2 ft. beam.

Double cone weight.

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0	8 54	25	9 28 40
			100	8 57	35	9 23 10
			200	8 59	45	9 18 45
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5251 Date, July 1, 1904

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 9:42 } Air { _____
 { 84° Time 10:02 } { _____

Density: Surf. 1.02531 _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds 4 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____
Limasawa Id (S) S. 70° 30' E., 18.5 mi

General Locality _____
(No bearing)

Position Lat. 10° 25' 00" N. Long. 124° 41' 00" E

Chart used: No. 4719 CS Ed'n _____

Drift: Direction S. 60° E. Distance 4

Depth of Haul _____ fathoms

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

P. M. Down. Up. P. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

9	40	50	9	03	40
9	41	30	9	01	30

Dredge } No. 5235 Date, / / , 19
Hydrog. }
Sdg. Mch. / Reel / Shot / 25 lbs.
Lead /
Turns 44 Cor'n / Depth 44 fms.
Sdg. Cup / Amt. Bot'm Sample /
Character of Bottom /

Thermom. { Make / No. / Cor'n { Instr. / Stem. /

Bottom Reading / Cor'd Temp. /

Temp. Surf. { 86° Time 9:30 A } Air { / Time / }

Density: Surf. 1.02475 fms. /

Wind: Direction N-E Force 1

Baromet. / Amt. of Clouds 7 State of Sea 2

Weather /

Direction and Force of Current { Surface / Bottom /

Tide /

General Locality 6.4 mi. Linotian Ridge Pacific Ocean.

Position 9-43-00 N, 125-48-15 E. 337° E.

Chart used: No. 4719 C.S. Ed'n.

Drift: Direction S 53° E. Distance .6

Depth of Haul Bottom

Apparatus and Rig used 12' /

Time towing 90 m.

Remarks: /

Deck Officer / Recorder /

SOUNDING WIRE.

M. DOWN.	UP.	A.M.
9 23 40	9 25 00	
9 24 00	9 24 10	

FMS.

DREDGING CABLE.

M. DOWN.	UP.	A.M.
9 26 20	9 5 00	
9 30 00	9 5 00	

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5236 Date, 11 July, 1907

Sdg. Mch. Reel Shot Lead 25 lbs.

Turns 328 Cor'n Depth 328 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 9° 51' 15" N. 126° 26' 30" E

Chart used: No. CS 4719 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Towed at 328 fms. with T.H. Machine. - Bottom of bottom sandy on west

Deck Officer Ed. L. H. Recorder 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

15	10	00	10	26	50	0
15	00		14	20		100
15	50		22	10		200
16	40		19	00		300
10	17	10	10	17	20	400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

The Sounding Record.

Continued

next page

Three same

Four same

Continued

Dredge } No. 5276 Date, 11/2/00, 1900
Hydrog.

Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.

Turns 444 Cor'n Depth 404 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 2 1/2

Character of Bottom fine S

Thermom. { Make 10902 Cor'n { Instr. -46.2
No. 10902 Stem. -56

Bottom Reading 42.0 Cor'd Temp. 41.0

Temp. Surf. { 85.0 Time 12:40 a.m. 87.0
86.0 Time 11:30 a.m. 86.0

Density: Surf. 1.02453 fms. 1.02522

Wind: Direction SE Force 1

Baromet. 29.73 Amt. of Clouds 3 State of Sea Smooth

Weather Bc

Direction and Force of Current { Surface
Bottom

Tide 9.1 mi.

General Locality Pacific Ocean, near the

Position 8°50'40"N-156°26'50"W

Chart used: No. 4719 Ed'n

Drift: Direction S.E. Distance

Depth of Haul 1300

Apparatus and Rig used 12' Pressing Net

Time towing 20 m.

Remarks: Trawl came up with 100 lbs. of

fish, and 1 tail mud bug, 3 gl. fls.

Side - no unbroken skin was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

found, and 100 lbs. of fish was

SOUNDING WIRE.

A. M. Down.	Up. A. M.
10 27 25 10	31 35
22 15	30 50
24 20	30 15
26 25	29 50
28 30	29 15
10 26 55 10	29 20

FMS.

DREDGING CABLE.

A. M. Down.	Up. A. M.
10 35 20	11 50 40
38 55	47 35
42 10	46 50
45 20	41 50
46 50	37 50
53 20	34 20
55 20	30 30
7 40	25 15
11 01 25	1 21 50

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 227 Date, May 11, 1906

Sdg. Mch. Reel Shot Lead lbs.

Turns 249 Cor'n Depth 547 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 105023 Cor'n { Instr. - .46 Stem. - .52

Bottom Reading 47.2 Cor'd Temp. 46.2

Temp. Surf. { Time Air {

Density: Surf. 1.02477 fms. 1.02482

Wind: Direction Force

Baromet. Amt. of Clouds 9 State of Sea

Weather

Direction and Force of Current. { Surface Bottom

Tide

General Locality 5.75 mi.

Position 22° 05' N. 156° 3' E.

Chart used: No. Ed'n

Drift: Direction S 3° E. Distance 2.1

Depth of Haul. Botm

Apparatus and Rig used

Time towing 17 1/4 m.

Remarks: 1 min. at 453 fath.

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 30 10	10 1 30		0	10 30 10	10 1 30	
10 30 10	10 1 30		100	10 30 10	10 1 30	
10 30 10	10 1 30		200	10 30 10	10 1 30	
10 30 10	10 1 30		300	10 30 10	10 1 30	
10 30 10	10 1 30		400	10 30 10	10 1 30	
10 30 10	10 1 30		500	10 30 10	10 1 30	
10 30 10	10 1 30		600	10 30 10	10 1 30	
10 30 10	10 1 30		700	10 30 10	10 1 30	
10 30 10	10 1 30		800	10 30 10	10 1 30	
10 30 10	10 1 30		900	10 30 10	10 1 30	
10 30 10	10 1 30		1000	10 30 10	10 1 30	
10 30 10	10 1 30		1100	10 30 10	10 1 30	
10 30 10	10 1 30		1200	10 30 10	10 1 30	
10 30 10	10 1 30		1300	10 30 10	10 1 30	
10 30 10	10 1 30		1400	10 30 10	10 1 30	
10 30 10	10 1 30		1500	10 30 10	10 1 30	
10 30 10	10 1 30		1600	10 30 10	10 1 30	
10 30 10	10 1 30		1700	10 30 10	10 1 30	
10 30 10	10 1 30		1800	10 30 10	10 1 30	
10 30 10	10 1 30		1900	10 30 10	10 1 30	
10 30 10	10 1 30		2000	10 30 10	10 1 30	
10 30 10	10 1 30		2100	10 30 10	10 1 30	
10 30 10	10 1 30		2200	10 30 10	10 1 30	
10 30 10	10 1 30		2300	10 30 10	10 1 30	
10 30 10	10 1 30		2400	10 30 10	10 1 30	
10 30 10	10 1 30		2500	10 30 10	10 1 30	
10 30 10	10 1 30		2600	10 30 10	10 1 30	
10 30 10	10 1 30		2700	10 30 10	10 1 30	
10 30 10	10 1 30		2800	10 30 10	10 1 30	
10 30 10	10 1 30		2900	10 30 10	10 1 30	
10 30 10	10 1 30		3000	10 30 10	10 1 30	
10 30 10	10 1 30		3100	10 30 10	10 1 30	
10 30 10	10 1 30		3200	10 30 10	10 1 30	
10 30 10	10 1 30		3300	10 30 10	10 1 30	
10 30 10	10 1 30		3400	10 30 10	10 1 30	
10 30 10	10 1 30		3500	10 30 10	10 1 30	
10 30 10	10 1 30		3600	10 30 10	10 1 30	
10 30 10	10 1 30		3700	10 30 10	10 1 30	
10 30 10	10 1 30		3800	10 30 10	10 1 30	
10 30 10	10 1 30		3900	10 30 10	10 1 30	
10 30 10	10 1 30		4000	10 30 10	10 1 30	
10 30 10	10 1 30		4100	10 30 10	10 1 30	
10 30 10	10 1 30		4200	10 30 10	10 1 30	
10 30 10	10 1 30		4300	10 30 10	10 1 30	
10 30 10	10 1 30		4400	10 30 10	10 1 30	
10 30 10	10 1 30		4500	10 30 10	10 1 30	
10 30 10	10 1 30		4600	10 30 10	10 1 30	
10 30 10	10 1 30		4700	10 30 10	10 1 30	
10 30 10	10 1 30		4800	10 30 10	10 1 30	
10 30 10	10 1 30		4900	10 30 10	10 1 30	

Dredge } No. 523 (Date, / / , 19
Hydrog. }
Sdg. Mch. Lucas Reel Shot/Lead lbs.

Turns Cor'n Depth 380 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gmn

Thermom. { Make 79 Cor'n { Instr. - .47
No. 109073 Stem. - .56

Bottom Reading Cor'd Temp. 42.7°

Temp. Surf. { 86 Time 3:10 } Air { 91°
86 Time 4:00 }

Density: Surf. 1.02453 fms. 1.02454

Wind: Direction variable Force 0-1

Baromet. Amt. of Clouds ✓ State of Sea 0

Weather bc

Direction and Force of Current { Surface
Bottom

Tide 4.3 mi.

General Locality Pacific Ocean East of Hawaii

Position 7° 44' N - 156° 30' W

Chart used: No. 084724 Ed'n -

Drift: Direction 315 Distance 2.5

Depth of Haul Bottom

Apparatus and Rig used 12' Dredge

Time towing h. 2 m.

Remarks:

Deck Officer Mr. H. J. ... Recorder Mr. C. ... 11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
2 55 00	02 30			0	3 18 00	14 00		
57 00	02 30			100	13 30	09 30		
57 50	02			200	16 40	05 30		
58 45	01 10			300				
				400				
				500	22 05	57 20		
				600	24 40	52 50		
				700	3 28 00	48 00		
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 2729 Date, 14 Feb, 1900
 Hydrog. }
 Sdg. Mch. Tanner Reel 57 Shot/Lead 25 lbs.
 Turns 182 Cor'n 171 Depth 171 fms.
 Sdg. Cup (arming) Amt. Bot'm Sample arming
 Character of Bottom fine M. (s)
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 81.0 Time 12:54/2 } Air { 84.0
 { 8.50 Time 1:15 } { _____
 Density: Surf. 1.02417 fms. _____
 Wind: Direction E by S Force 2-3
 Baromet. 29.74 Amt. of Clouds 3 State of Sea S
 Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____ 2.25 mi.

General Locality Pujada Bay, Pin Island.

Tanica Is. (17) N 78 E - Pujada Is. (50) S 35 E

Position 6°49'08"N - 156°15'12"E

Chart used: No. C.S. 464 Ed'n _____

Drift: Direction N 13° W Distance 0.5 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Beach

Time towing _____ h. 7 m.

Remarks: 2 brown bottom: 1 brownish
recumbent 5' and 1' long
up in bottom, when hauled out the
ray up to 15' long, when out
at sudden release (192 pounds)
- Bridle, stow and trawl - all but one
strand - carried away: 1 heavy
line, 1/2" thick, from bottom.

Deck Officer Wm. T. Tilton Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
12 41 50	12 42 00		0	12 57 20	1 17 20	
12 42 40	12 43 35		100	12 58 45	1 18 00	
12 43 50	12 44 00	180	200	12 59 45	1 18 50	
			300	1 00 00	1 19 00	
			400	1 01 00	1 19 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

11. *Agave*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 31 40	1 37 40		0	1 47 00	1 16 00	
32 30	34 35	1 32 100	100	46 00	12 10	
1 33 00	1 33 30	1 200	200	17 51 49 00	1 00 10	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5741 Date, 14 Jan, 1908

Sdg. Mch. T. N. Reel Shot/Lead 25 lbs.

Turns 230 Cor'n Depth 215 fms.

Sdg. Cup 2 min. Amt. Bot'm Sample 1/2

Character of Bottom SFF gy. S. T.

Thermom. { Make { none used Cor'n { Instr. { Stem.

Bottom Reading - Cor'd Temp.

Temp. Surf. { 85 Time 2:45 Air { 84

Density: Surf. 1.02453 fms.

Wind: Direction S.E. Force 2-3

Baromet. 29.69 Amt. of Clouds 4 State of Sea 3

Weather bc

Direction and Force of Current { Surface { Bottom

Tide

General Locality 3 mi. Pajada Bay, Mindanao.

Position 10° 45' N 126° 14' E

Chart used: No. 4646 Ed'n -

Drift: Direction N 15° W Distance 1.1 m.

Depth of Haul 15 fms.

Apparatus and Rig used 9' B-B; 2 d. line; tail weight and mud bag.

Time towing - h. 20 m.

Remarks: Towing time computed from 2:58:35

Deck Officer Mr. M. W. H. Recorder J. H. H.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
P. M. DOWN.	UP. P. M.		P. M. DOWN.	UP. P. M.
2 12 00	2 30 15	0	2 41 25	3 25 30
23 00	28 00	100	45 00	32 25
24 00	28 30	200	48 20	29 30
2 24 15	2 25 00	230 300	51 15	26 25
		400	53 05	25 20
		500	58 00	20 10
		560	2 58 35	
		600	3 05 15	3 18 35
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
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		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
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		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 542 Date, 14 May, 1907

Sdg. Mch. Tanner Reel Tanner Shot/Lead 35 lbs.

Turns 191 Cor'n - Depth 191 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 2 oz

Character of Bottom off. gy. m.

Thermom. { Make W. & S. Cor'n { Instr. - .46
No. 109022 Stem. - .16

Bottom Reading 64.50 Cor'd Temp. 63.9

Temp. Surf. { 85° Time 3:51 } Air { 83°
Time 4:55

Density: Surf. 1.02437 fms. 1.02489

Wind: Direction SE Force 3

Baromet. 29.67 Amt. of Clouds 4 State of Sea 2

Weather bc

Direction and Force of Current { Surface
Bottom

Tide Low water Id. (N) S. 56° E., 4 miles

General Locality Pointe à la Pêche, St. Pierre

Lat. Lt. North - 6° 57' 53" N Long. West - 126° 14' 10" W

Position 6° 57' 53" N - 126° 14' 10" W

Chart used: No. 404 Ed'n -

Drift: Direction N 13 W Distance 1.0 mi

Depth of Haul bottom

Apparatus and Rig used 75' beam trawl, and 2
string nets (vertical)

Time towing 20 m.

Remarks: Trawl used in searching
- Lost Officer's personal effects at 11:00 pm

Deck Officer Mr. J. H. ... Recorder Mr. ...

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
✓ 44 00	✓ 46 05			0	3 58 05			
✓ 44 50	47 20			100	✓ 55 40			
✓ 45 50	46 55	19		200	✓ 57 40			
				300	4 02 40	4 22 40		
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5213 Date, May 15, 1916
 Hydrog.
 Sdg. Mch. Lucas Reel Shot 30 lbs.
 Turns Cor'n Depth 218 fms.
 Sdg. Cup Agassiz Amt. Bot'm Sample 207
 Character of Bottom gy. s.
 Thermom. { Make N 1/2 Cor'n { Instr. 1.465
 { No. 10603 { Stem. -3
 Bottom Reading 1.15 Cor'd Temp. 63.4
 Temp. Surf. { 84° Time 1:05 P. Air { 85
 { 85 Time 1:35 P.
 Density: Surf. 1.02433 fms. 1.02468
 Wind: Direction S.E. Force 0-1
 Baromet. 29.71 Amt. of Clouds 9 State of Sea S
 Weather B.

Direction and Force of Current { Surface
 { Bottom

Tide Low Water 21. (11) S 66° E 3.1 mi.

General Locality Ryada Bay, Luzon

Width 14 W. entrance of bay 1.5 mi.

Position 6° 51' 00" N - 126° 16' 00" E

Chart used: No. CS 4646 Ed'n

Drift: Direction 1/5 W Distance 1.1

Depth of Haul 65 fms.

Apparatus and Rig used 12' beam trawl

Trawl 10' x 12' with 1/2" mesh

Time towing h. 20 m.

Remarks: water bottle and sea sample

Deck Officer M. Hagan Recorder

SOUNDING WIRE.

P. M. Down. Up. P. M.

12 51 00 14 56 15
 52 35 55 35
 53 00 53 00
 12 53 50 12 54 50 218

FMS.

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

DREDGING CABLE.

P. M. Down. Up. P. M.

1 00 50 1 4 50
 06 50 09 50
 08 00 36 10
 1 12 00 1 32 00

Dredge } No. 1 Date, , 19
Hydrog. }
Sdg. Mch. J N Reel J N Shot 1 lbs.
Leads }
Turns 160 Cor'n / Depth 17 fms.
Sdg. Cup Amt. Bot'm Sample 25
Character of Bottom
Thermom. { Make No. 20 Cor'n { Instr. Stem.
Bottom Reading used Cor'd Temp.
Temp. Surf. { 95 Time 2:00 P } Air { 84
85 Time 2:06 }
Density: Surf. 1.02497 fms.
Wind: Direction S.E. Force 1-2
Baromet. 29.6 Amt. of Clouds 9 State of Sea 8
Weather sea

Direction and Force of Current { Surface
Bottom

Tide 21. (N) S. 52° E. 4 mi.

General Locality Rapa Nui
Note to North of island of H. T. L.
Position 6-52-3 126-40-42 E

Chart used: No. C.S. 4646 Ed'n

Drift: Direction N 46 E Distance 7

Depth of Haul bottom

Apparatus and Rig used 12' beam trawl

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Staged Recorder B. B. B.

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	Down.	Up.	M.		M.	Down.	Up.	M.
1	46 00	1	54 00	0	1	56 00		35 30
	47 00		51 00	100		57 30		31 30
1	47 50	1	50 00	200	2	58 00		27 30
				300		05 00	2	25 00
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

SOUNDING WIRE.

M. Down.	Up.	M.
2 45 45	2 41 10	
46 40	43 40	
47 10	2 41 15	135

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
2 54 20	27 30	
3 01 10	28 20	
3 02 10	28 30	

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 5246 Date, 15 May, 1908

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 10 _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 7:10 } Air { 83°
 { 82° Time 7:30 } { 82°

Density: Surf. 1.02477 fms. _____

Wind: Direction Variable Force 5-1

Baromet. 29.73 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____ S. 58° W., 8 mi.

General Locality Pacific Ocean, East Coast of Indonesia.

Position 6°29'N 126°18'45"E

Chart used: No. 4724 Ed'n _____

Drift: Direction S 6 E Distance 1.8 m.

Depth of Haul Inters. at 100 fms.

Apparatus and Rig used 10' Inters. & double beam trawl

Time towing _____ h. 2 m.

Remarks:

Deck Officer Mr. Witter Recorder (A. J. S. 1908)

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

7

04 00

7

37 50

7

07 30

7

37 00

7

10 00

7

30 00

Dredge } No. 5-247 Date, May 18, 1908
Hydrog. }
Sdg. Mch. Lucas Reel 7-11 Shot 35 lbs.
Leads }
Turns 140 Cor'n -5- Depth 135 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 1/2
Character of Bottom M.

Thermom. { Make _____ Cor'n { Instr. _____
No. None Stem. _____

Bottom Reading used Cor'd Temp. _____

Temp. Surf. { 83° Time 9:00 } Air { 81 1/2°
83° Time _____ }

Density: Surf. 1.02417 fms. _____

Wind: Direction N.E. x E Force 3

Baromet. 29.74 Amt. of Clouds 4 State of Sea 8

Weather bc

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

4 mi.

General Locality South of Cape Cod, 1 mi. off

W. 2.1 mi. off, 5 mi. S. (W. 2.1) 1 mi. S.

Position Lat 40° 01' 00" N Long 71° 27' 00" W

Chart used: No. 4724 C.S. Ed'n. _____

Drift: Direction N. 76° W. Distance 1.5 mi.

Depth of Haul bottom

Apparatus and Rig used N.R.

3 glass floats, 2 timing line

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
8 45 10	8 15 15	8	0	8 56 20	7 15 15	8
8 46 10	8 17 10	8	100	9 00 00	8 30 10	9
8 47 10	8 17 15	8	200	9 03 50	8 30 10	9
			300	9 08 15	8 30 15	9
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~Hydrog.~~ } No. 4909 Date, May 18, 1903

Sdg. Mch. T. H. Reel 7. Shot/Lead 3 lbs.

Turns 22 Cor'n _____ Depth 22 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 4724 C.S., Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.						FMS.	DREDGING CABLE.			
M. Down.			Up.		A. M.		M. Down.		Up.	M.
10	21	10	10	21	50	0				
10	21	20	10	21	25	²² 100				
						200				
						300				
						400				
						500				
						600				
						700				
						800				
						900				
						1000				
						1100				
						1200				
						1300				
						1400				
						1500				
						1600				
						1700				
						1800				
						1900				
						2000				
						2100				
						2200				
						2300				
						2400				
						2500				
						2600				
						2700				
						2800				
						2900				
						3000				
						3100				
						3200				
						3300				
						3400				
						3500				
						3600				
						3700				
						3800				
						3900				
						4000				
						4100				
						4200				
						4300				
						4400				
						4500				
						4600				
						4700				
						4800				
						4900				

Dredge } No. 4 Date, July 18, 1903

Hydrog. }
Sdg. Mch. 2 Reel 7 Shot } 25 lbs.
Lead }

Turns 15 Cor'n. Depth 15 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make None Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 63° Time 10:35 } Air { 83° Time 10:41 }

Density: Surf. 1.02453 fms.

Wind: Direction N x E Force 2

Baromet. 29.73 Amt. of Clouds 3 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality 1.1 mi.

Position 7° 4' 15" N, 125° 38' 00" E

Chart used: No. 4724 Ed'n.

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. 04 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.						
M. Down.		Up.	A. M.		M. Down.		Up.	A. M.			
10	20	17	30	30	10	34	60	10	41	40	
10	30	15	30	06-	100	10	35	50			
					200	10	37	30	10	39	20
					300						
					400						
					500						
					600						
					700						
					800						
					900						
					1000						
					1100						
					1200						
					1300						
					1400						
					1500						
					1600						
					1700						
					1800						
					1900						
					2000						
					2100						
					2200						
					2300						
					2400						
					2500						
					2600						
					2700						
					2800						
					2900						
					3000						
					3100						
					3200						
					3300						
					3400						
					3500						
					3600						
					3700						
					3800						
					3900						
					4000						
					4100						
					4200						
					4300						
					4400						
					4500						
					4600						
					4700						
					4800						
					4900						

~~Hydrog.~~ } No. 49101 Date, May 15, 1908

Sdg. Mch. Tanner Reel _____ Shot } 36 lbs.
Lead }

Turns 17 Cor'n _____ Depth 17 fms.

Sdg. Cup to 100 Amt. Bot'm Sample _____

Character of Bottom Co

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality 7th

Position 7° 03' 40" N, 125° 28' 30" E

Chart used: No. 4724 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
Q. M. Down.	Up. Q. M.		M. Down.	Up.	M.
10 43 00	1 04 30	0			
10 43 10	10 42 00	100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Coincident with 05249.

Trawl } No. 4211 Date, May 12, 1906
Hydrog. }
Sdg. Mch. Tanner Reel T.M. Shot Lead 36 lbs.
Turns 20 Cor'n Depth 20 fms.
Sdg. Cup Tanner Int. Bot'm Sample plentiful
Character of Bottom C.S.

Thermom. { Make None Cor'n { Instr.
No. us Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality Redipatan St., S. of Haines Pt.
Line 1st, 1151'E, Loring Pt. N.

Position 7° 02' 15"N 125° 08' 00"E

Chart used: No. 4724 C.S. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer T.M.

Recorder H.S.

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
9 M. Down.	Up.	9 M.			M. Down.	Up.	M.
10	52	00	10	52	50		
13	52	10	13	52	52		
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Towed by { No. 2 Date, July 1, 1911

Sdg. Mch. Reel Shot Lead 35 lbs.

Turns 23 Cor'n Depth 23 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 11:20 { Air { 84° Time 11:02

Density: Surf. 1.02453 fms.

Wind: Direction N.N.E. Force 3

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 7° 02' 15" N 125° 37' 30" E

Chart used: No. 4724 Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used

Time towing: h. 7 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

Q M. Down. Up. Q M.

Q M. Down. Up. Q M.

10	5-6	30	10	5-7	10
10	5-6	40	10	5-6	45

0	10	5-8	30	11	05	45
23	11	00	05			

200	11	05	15	11	07	00
-----	----	----	----	----	----	----

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

11-14125

SOUNDING WIRE.

FMS.

DREDGING CABLE.

11 M. Down. | Up. *11* M.

11 *16* 00 *11* *16* *55*

11 *16* *10* *11* *16* *55* 20

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 1111 Date, May 12, 1901

Sdg. Mch. 1111 Reel 7.11 Shot/Lead 35 lbs.

Turns 23 Cor'n Depth 23 fms.

Sdg. Cup 1111 (Amt. Bot'm Sample 1111)

Character of Bottom 1111

Thermom. { Make 1111 Cor'n { Instr. 1111
No. 1111 Stem. 1111

Bottom Reading 1111 Cor'd Temp. 1111

Temp. Surf. { 84° Time 11:40 } Air { 84°
84° Time 11:25 }

Density: Surf. 7.02437 fms. 1111

Wind: Direction N.N.E. Force 2

Baromet. 1111 Amt. of Clouds 1 State of Sea 1111

Weather 1111

Direction and Force of Current { Surface 1111
Bottom 1111

Tide 1111

General Locality 1111
1111 P. 1111 (1111) 1111

Position 7° 02' 00" N. 125° 38' 15" E

Chart used: No. 4724 C.S. Ed'n 1111

Drift: Direction 1111 Distance 1111

Depth of Haul 1111

Apparatus and Rig used 1111

1111 1111 1111

Time towing 1111 h. 1111 m.

Remarks: 1111

Deck Officer 1111 Recorder 1111

SOUNDING WIRE.

M. Down. Up. A. M.

FMS.

DREDGING CABLE.

M. Down. Up. A. M.

11	20	15	11	21	00	0	11	21	45	11	28	30
11	20	00	11	20	33	23	11	23	37	11	27	30
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~Hydrog.~~ { No. ~~2945~~ Date, ~~11/11~~ / ~~19~~ ~~07~~ } 1907

Sdg. Mch. ~~34~~ Reel ~~34~~ Shot ~~Lead~~ lbs.

Turns ~~21~~ Cor'n Depth fms.

Sdg. Cup ~~0~~ Amt. Bot'm Sample

Character of Bottom ~~cor~~

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time { Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: This sounding was not repeated as a dredge or hydrog.

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

P M. Down. Up. F. M.				FMS.	M. Down. Up. M.			
1	0210	1	0250	0				
1	0220	1	0230	100				
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5241 Date, July 1, 1901

Sdg. Mch. Reel Shot/Lead lbs.

Turns 20 Cor'n Depth 20 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85 Time 1:08 P { 56
{ 83 Time 1:17 P { 56

Density: Surf. 1.02433 fms.

Wind: Direction SW Force 2

Baromet. 29.6 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

1/2 mi.

General Locality Davis Gulf Honduras
Tropic of Cancer 17° 12' N Longitude 82° 5' W

Position 17-12-N-82-5-W

Chart used: No. 4724 C.S. Ed'n

Drift: Direction Distance

Depth of Haul 60 fms

Apparatus and Rig used 6' Alb. beam trawl
25 lb. net

Time towing h. 5 m.

Remarks:

Deck Officer M. H. Recorder B. H.

SOUNDING WIRE.

M. DOWN.			UP.	M.		
1	06	30	1	07	10	
1	06	40	1	06	50	

FMS.

DREDGING CABLE.

M. DOWN.			UP.	M.		
1	08	30	1	11	30	
1	10	00	1	15	00	

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 5257 Date, July 1, 1901
Hydrog. }
Sdg. Mch. 711 Reel 711 Shot Lead 26 lbs.
Turns 28 Cor'n Depth 28 fms.
Sdg. Cup Arming Amt. Bot'm Sample 207
Character of Bottom cr

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83 Time 1:24 P } Air { 95
Time 1:32 P }

Density: Surf. 1.02417 fms.

Wind: Direction SW Force 2

Baromet. 29.58 Amt. of Clouds State of Sea

Weather bc

Direction and Force of Current { Surface
Bottom

Tide.

General Locality 12 mi.
Position 12 mi. N. 12 mi. E.

Chart used: No. 4724 CS Ed'n.

Drift: Direction S 29 E Distance 1.2

Depth of Haul 12 m

Apparatus and Rig used as before

Time towing h. 4 m.

Remarks:

Deck Officer McIntosh Recorder Roberts

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

21 50 / 22 00

22 30 / 22 10 28

20
400

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

1 28 10 / 21 10
1 25 00 / 21 20

Dredge } No. 5255 Date, 7 June, 1905

Sdg. Mch. 11.4 Reel 5 Shot 25 lbs.

Turns 28 Cor'n Depth 28 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 86 Time 1:42 Air { 82 85 Time 2:22

Density: Surf. 1.02433 fms.

Wind: Direction 8 Force 1-2

Baromet. Amt. of Clouds 7 State of Sea 3

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality 1.2 mi. S.W. of Windward

Position 7-1-20 N-125-35 W

Chart used: No. 472455 Ed'n.

Drift: Direction N 11 E Distance 1.0

Depth of Haul

Apparatus and Rig used as before

Time towing h. 1.1 m.

Remarks:

Deck Officer Mr. Hays Recorder

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
/		3510	0	/		3510
/		3520	100	/		3520
			200	/		3530
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
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			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 525W Date, May 18, 1908
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 21 Cor'n _____ Depth 21 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom m. s. w.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 2:25 P } Air { 83°
 { 82° Time 2:50 P } { 82°

Density: Surf. 1.02417 _____ fms. _____

Wind: Direction variable Force 0-1

Baromet. 29.45 Amt. of Clouds 7 State of Sea 5

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

1 mi.

General Locality Large Gulf of Mexico
South of Cuba about 100 miles S. of Havana

Position 1-52-00 N-125-37-W

Chart used: No. 4724CS Ed'n _____

Drift: Direction North Distance 3

Depth of Haul 0 m.

Apparatus and Rig used as before

Time towing 5 m.

Remarks:

Deck Officer Mr. Mayes Recorder R. R. R.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>P</i> M. Down.	Up.	<i>P</i> M.		<i>P</i> M. Down.	Up.	<i>P</i> M.
2 22 20	2 23 00		0	2 24 20	2 25 00	
2 22 30	2 22 40	28	100	2 26 00	2 31 00	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 100 Date, Aug 18, 1911

Sdg. Mch. 100 Reel 100 Shot/Lead 25 lbs.

Turns 100 Cor'n 100 Depth 100 fms.

Sdg. Cup 100 Int. Bot'm Sample 100

Character of Bottom gy. m.

Thermom. { Make none Cor'n { Instr. —
No. used Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 86 Time 6:20 } Air { 83
 { 84 Time 6:30 } { 82

Density: Surf. 1.02227 fms. —

Wind: Direction Calm Force 0

Baromet. 29.70 Amt. of Clouds 0 State of Sea 0

Weather Clear

Direction and Force of Current { Surface —
 Bottom —

Tide —

3.75 mi.

General Locality Davao Gulf

2d (1) & 3d (1) S.W. of Davao

Position 12° 45' N - 125° 45' E

Chart used: No. 4724 Ed'n —

Drift: Direction — Distance —

Depth of Haul Bottom

Apparatus and Rig used 12' B. & G. 3 fathoms,
3 m. 1 m. 6 m.

Time towing — h. 20 m.

Remarks:

Deck Officer W. B. Smith Recorder W. B. Smith

SOUNDING WIRE.

M. Down.	Up.	M.	FMS.
6 02 30	6 06 15		0
6 03 30	6 04 00	100	100
			200
			300
			400
			500
			600
			700
			800
			900
			1000
			1100
			1200
			1300
			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

DREDGING CABLE.

M. Down.	Up.	M.
6 07 00	6 40 00	
6 10 00	6 36 45	
6 13 10	6 33 10	

Dredge } No. 1 Date, , 19 13
Hydrog. }

Sdg. Mch. Reel Shot/Lead lbs.

Turns 165 Cor'n - 7 Depth 158 fms.

Sdg. Cup Amt. Bot'm Sample 1.61

Character of Bottom M.

Thermom. { Make No. none Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81° Time 9:30 } Air { 80°
82° Time 1:5

Density: Surf. 1.02262 fms.

Wind: Direction S.E. Force 1

Baromet. 29.1 Amt. of Clouds 2 State of Sea 0

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Trinidad Pt. N 48° W 21 mi. from shore

Position 17° 14' N, 107° 08' W 176° 14'

Chart used: No. 4619 Ed'n

Drift: Direction N 48° S Distance 3

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. 2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A. M. DOWN. UP. A. M.

A. M. DOWN. UP. A. M.

9	37	18	9	44	00
9	38	20	9	41	00
9	39	00	9	39	20

~~185 200~~
~~200~~
~~200~~

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 00	10 37	10	0	10 00	10 22	10
10 05	10 32	10	100	10 05	10 22	10
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
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			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5258 Date, June 2, 1908
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Instr. _____
No. _____ Cor'n _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 7:09 P } Air { 84°
84° Time 7:30 P } 84°

Density: Surf. 1.02587 - fms. _____

Wind: Direction W.S.W. Force 2-3

Baromet. 29.74 Amt. of Clouds 10 State of Sea S

Weather bcepl

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position 10-27-45 N - 122-15-30 E

Chart used: No. 4717 CS. Ed'n _____

Drift: Direction W.S.W. Distance .3

Depth of Haul Surface

Apparatus and Rig used 10' Inter. 500' net.
(N°5 Inter.; formerly N°4 has been used)

Time towing h. 20 m.

Remarks: _____

Deck Officer McCasidy Recorder Robert

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.		M.		<i>P</i> M. Down.	Up.	<i>P</i> M.	
				0	7	08	10	7
				100				29
				200				20
				300				
				400				
				500				
				600				
				700				
				800				
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				4900				



90
22 1/2
67 1/2

$$\begin{array}{r} 775 \\ 517 \\ \hline 430 \end{array}$$

$$\begin{array}{r} 11341 \\ 380 \\ \hline 961 \\ 802 \\ \hline 1763 \end{array}$$

$$\begin{array}{r} 175 \overline{) 3} \\ 16 \overline{) 48} \\ \hline 25 \quad 2 \\ 27 \quad 116 \end{array}$$

$$\text{Intro} = \frac{2}{3}$$